

WHAT IS CLAIMED IS:

1. A cellular telephone apparatus which has a cellular telephone set capable of originating a plurality of calls to a base station and communicating with an accessory through sub-communication means, and said accessory capable of communicating with said cellular telephone set through said sub-communication means, and can execute a communication function other than a voice communication function by said cellular telephone through said sub-communication means, comprising:

monitoring means for monitoring channel quality of sub-communication between said cellular telephone set and said accessory during communication with a remote cellular telephone set by using said accessory; and

control means for, when said monitoring means determines that the channel quality of the sub-communication has deteriorated to not more than a predetermined level, causing said cellular telephone set to start originating a call to the remote cellular telephone set.

2. An apparatus according to claim 1, wherein said accessory comprises a videophone unit.

3. An apparatus according to claim 1, wherein said accessory comprises a musical unit.

4. An apparatus according to claim 1, wherein said

sub-communication means is infrared communication.

5. An apparatus according to claim 2, wherein said sub-communication means is infrared communication.

6. An apparatus according to claim 3, wherein said
5 sub-communication means is infrared communication.

7. An apparatus according to claim 1, wherein said sub-communication means is radio communication.

8. An apparatus according to claim 2, wherein said sub-communication means is radio communication.

10 9. An apparatus according to claim 3, wherein said sub-communication means is radio communication.

10. A cellular telephone apparatus which has a cellular telephone set capable of originating a plurality of calls to a base station and communicating with an
15 accessory through sub-communication means, and said accessory capable of communicating with said cellular telephone set through said sub-communication means, and can execute a communication function other than a voice communication function by said cellular telephone set
20 through said sub-communication means,

said cellular telephone set comprising:

cellular telephone transceiver means for originating a plurality of calls to a base station;

sub-communication means for performing communication
25 with said accessory;

channel monitoring means for monitoring channel quality of said sub-communication means; and

control means for, when the channel quality of said sub-communication means has deteriorated to not more than
5 a predetermined level, causing said cellular telephone transceiver means to start originating a call for voice communication with a remote cellular telephone set, and

said accessory comprises:

sub-communication means for performing communication
10 with said cellular telephone set;

expression means for expressing a content transferred by said sub-communication means;

channel monitoring means for monitoring channel quality of said sub-communication means; and
15 control means for, when the channel quality of said sub-communication means has deteriorated to not more than a predetermined level, notifying said cellular telephone set of the corresponding information.

11. An apparatus according to claim 10, wherein said
20 accessory comprises a videophone unit.

12. An apparatus according to claim 10, wherein said accessory comprises a musical unit.

13. An apparatus according to claim 10, wherein said sub-communication means is infrared communication.

25 14. An apparatus according to claim 11, wherein said

sub-communication means is infrared communication.

15. An apparatus according to claim 12, wherein said sub-communication means is infrared communication.

16. An apparatus according to claim 10, wherein said
5 sub-communication means is radio communication.

17. An apparatus according to claim 11, wherein said sub-communication means is radio communication.

18. An apparatus according to claim 12, wherein said sub-communication means is radio communication.

10 19. A communication method for a cellular telephone apparatus including a cellular telephone set capable of originating a call in addition to a call for voice communication, and an accessory capable of communicating with the cellular telephone set by using a radio channel
15 for sub-communication, wherein even if channel quality of a radio channel for the sub-communication has deteriorated to not more than a predetermined level, when the cellular telephone set can perform voice communication with a remote cellular telephone set, the cellular telephone set
20 is allowed to perform voice communication with the remote cellular telephone set.